



AN ISO 9001 : 2008 COMPANY & NABL ACCREDITED LABORATORY AS PER ISO/IEC 17025:2005

4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : CP-2019-07-19-54 Date: 06-06-2019
Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address : Kodigehalli Sub Division, BBMP, Bangalore.
Project Name : Maintenance of Electrical Crematorium Building in Hebbal in Ward No.7 Byatarayanapura.
Agency : Sri.B.M.Muniraju, #432/A, Unnati Nilaya, 1st Main, 1st Cross, Shivashankara Block, Hebbala, Bangalore-24.
Customer's Reference : BBMP/EE/BTP/WO/45/2018-19
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 03-06-2019
Sample Type : Birla Super 53grade
Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988
IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4
IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5
IS 4031 Part 3, Determination of Soundness, Clause 5, Clause 6
IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5
IS 4031 Part 11, DETERMINATION OF DENSITY , Clause 6
Date of test : 04-06-2019
Environmental Conditions during test : Temperature: 26°C
Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.95	—
2	Finess by Air permeability method (m ² /kg,Min)	285.4	225m ² /kg, Min
3	Density (gm/cc)	3.12	—
4	Standard Consistency (%)	29.5%	Not specified
5	Initial Setting time	145 minutes	Not less than 30 minutes
6	Final Setting time	240 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

Note:

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FOR CIVIL Pro.



R. Rudraprasad
Authorized Signatory
Technical Manager

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore

****End of Report****

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL
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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : CP-2019-07-19-54 **Date:** 02-07-2019

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Maintenance of Electrical Crematorium Building in Hebbal in Ward No.7 Byatarayanapura.

Agency : Sri.B.M.Muniraju, #432/A, Unnati Nilaya, 1st Main, 1st Cross, Shivashankara Block, Hebbala, Bangalore-24.

Customer's Reference : BBMP/EE/BTP/WO/45/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 03-06-2019

Sample Type : Birla Super 53grade

Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 6, Determination of Compressive Strength, Clause 6

Date of test : 04-06-2019

Environmental Conditions during test : Temperature: 26°C
Humidity: 72%

Compressive Strength			
Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm ²	Not less than 27 N/mm ²
2	7 Days	39.0N/mm ²	Not less than 37 N/mm ²
3	28 Days	58.5N/mm ²	Not less than 53 N/mm ²

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Atul N D
AE (24)

dwj
Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.M.P.,
Bangalore
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R. Rudraprasad
R RUDRAPRASAD
Authorized Signatory
Technical Manager



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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2019-07-19-54 **Date:** 06-06-2019

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Maintenance of Electrical Crematorium Building in Hebbal in Ward No.7 Byatarayanapura.

Agency : Sri.B.M.Muniraju, #432/A, Unnati Nilaya, 1st Main, 1st Cross, Shivashankara Block, Hebbala, Bangalore-24.

Customer's Reference : BBMP/EE/BTP/WO/45/2018-19

Source of Sample : Sample supplied by Agency

Sample condition : Satisfactory

Date of Receipt : 03-06-2019

Sample Type : 40mm down size coarse aggregate

Reference to BIS codes : IS: 383:2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1,3,4) RA2011
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption
IS 2386 Part 4: Mechanical Properties

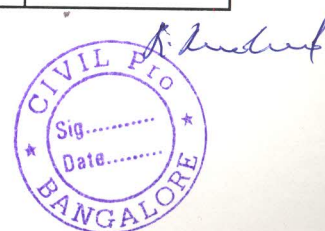
Date of test : 03-06-2019

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	244	244	1.6	98.4	90-100
3	20 mm	5432	5676	37.8	62.2	30-70
4	10 mm	4332	10008	66.7	33.3	10-35
5	4.75 mm	4654	14662	97.7	2.3	0-5
6	Pan	338	15000	100.0	0	---

Page 1/2



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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2019-07-19-54

Date: 06-06-2019

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.4	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.8	
3	Specific Gravity	2.68	—
4	Bulk Density(Loose) (Kg/l)	1.48	—
5	Bulk Density(Compacted) (Kg/l)	1.52	—
6	Water Absorption(%)	0.22	—

Note:

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R. Rudraprasad

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Authorized Signatory
Technical Manager



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Assistant Executive Engineer,
Kodigehalli Sub Division,
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Page 2/2
****End of Report****

10/06/19 N-D
AE (W)



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Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : CP-2019-07-19-54 Date: 06-06-2019
Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address : Kodigehalli Sub Division, BBMP, Bangalore.
Project Name : Maintenance of Electrical Cremetorium Building in Hebbal in Ward No.7 Byatarayanapura.
Agency : Sri.B.M.Muniraju, #432/A, Unnati Nilaya, 1st Main, 1st Cross, Shivashankara Block, Hebbala, Bangalore-24.
Customer's Reference : BBMP/EE/BTP/WO/45/2018-19
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 03-06-2019
Sample Type : Birla Super 53grade
Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988
IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4
IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5
IS 4031 Part 3, Determination of Soundness, Clause 5, Clause 6
IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5
IS 4031 Part 11, DETERMINATION OF DENSITY , Clause 6
Date of test : 04-06-2019
Environmental Conditions during test : Temperature: 26°C
Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.95	—
2	Finess by Air permeability method (m ² /kg,Min)	285.4	225m ² /kg, Min
3	Density (gm/cc)	3.12	—
4	Standard Consistency (%)	29.5%	Not specified
5	Initial Setting time	145 minutes	Not less than 30 minutes
6	Final Setting time	240 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

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Technical Manager

Assistant Executive Engineer,
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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : CP-2019-07-19-54 **Date:** 02-07-2019

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Maintenance of Electrical Crematorium Building in Hebbal in Ward No.7 Byatarayanapura.

Agency : Sri.B.M.Muniraju, #432/A, Unnati Nilaya, 1st Main, 1st Cross, Shivashankara Block, Hebbala, Bangalore-24.

Customer's Reference : BBMP/EE/BTP/WO/45/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 03-06-2019

Sample Type : Birla Super 53grade

Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 6, Determination of Compressive Strength, Clause 6

Date of test : 04-06-2019

Environmental Conditions during test : Temperature: 26°C
Humidity: 72%

Compressive Strength			
Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm ²	Not less than 27 N/mm ²
2	7 Days	39.0N/mm ²	Not less than 37 N/mm ²
3	28 Days	58.5N/mm ²	Not less than 53 N/mm ²

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R. Rudraprasad
R RUDRAPRASAD
Authorized Signatory
Technical Manager



Assistant Executive Engineer
Assistant Executive Engineer,
Kodigehalli Sub Division,
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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2019-07-19-54 **Date:** 06-06-2019
Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address : Kodigehalli Sub Division, BBMP, Bangalore.
Project Name : Maintenance of Electrical Crematorium Building in Hebbal in Ward No.7 Byatarayanapura.
Agency : Sri.B.M.Muniraju, #432/A, Unnati Nilaya, 1st Main, 1st Cross, Shivashankara Block, Hebbala, Bangalore-24.
Customer Reference : BBMP/EE/BTP/WO/45/2018-19
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 03-06-2019
Sample Type/ Size : 20mm down size coarse aggregate
Reference to BIS codes : IS: 383:2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1,3,4) RA2011
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption
IS 2386 Part 4: Mechanical Properties
Date of test : 03-06-2019

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	245	245	4.9	95.1	90-100
3	10 mm	2560	2805	56.1	43.9	25-55
4	4.75 mm	2033	4838	96.8	3.2	0-10
5	Pan	162	5000	100	0	-

Page 1/2



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Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2019-07-19-54

Date: 06-06-2019

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	13.2	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.6	
3	Specific Gravity	2.66	—
4	Bulk Density(Loose) (Kg/l)	1.54	—
5	Bulk Density(Compacted) (Kg/l)	1.58	—
6	Water Absorption(%)	0.22	—
7	Aggregate crushing Value(%)	24.5	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	22.8	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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Inty. No
#e(201)

Assistant Executive Engineer
Kodigehalli Sub Division,
Melahanka Zone, B.B.M.P.,
Bangalore
Page 2/2
End of Report*



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R. Rudraprasad
R RUDRAPRASAD
Authorized Signatory
Technical Manager



TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2019-07-19-54 **Date:** 06-06-2019
Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address : Kodigehalli Sub Division, BBMP, Bangalore.
Project Name : Maintenance of Electrical Crematorium Building in Hebbal in Ward No.7
Agency : Sri.B.M.Muniraju, #432/A, Unnati Nilaya, 1st Main, 1st Cross, Shivashankara Block, Hebbala, Bangalore-24.
Customer's Reference : BBMP/EE/BTP/WO/45/2018-19
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 03-06-2019
Sample Type : Fine Aggregate
Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption
Date of test : 03-06-2019

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	27	27	2.7	97.3	90-100	90-100	90-100	95-100
3	2.36 mm	55	82	8.2	91.8	60-95	75-100	85-100	95-100
4	1.18 mm	239	321	32.1	67.9	30-70	55-90	75-100	90-100
5	600 micron	205	526	52.6	47.4	15-34	35-59	60-79	80-100
6	300 micron	203	729	72.9	27.1	5-20	8-30	12-40	15-50
7	150 micron	191	920	92.0	8.0	0-10	0-10	0-10	0-15
8	Pan	80	1000	100.0	0.0	---	---	---	---

Result : The tested Sample Conforms to Grading Zone II





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4, 7TH MAIN MALLESWARAM, BANGALORE -3

TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2019-07-19-54

Date: 06-06-2019

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.5	—
2	Specific Gravity	2.59	—
3	Material finer than 75 micron(%)	6.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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[Signature]
Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore
Page 2/2
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[Signature]

R RUDRAPRASAD
Authorized Signatory
Technical Manager

[Signature] .N.D
A.E (N21)



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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE KERB STONE

Lab ID : CP-2019-07-19-54 **Date:** 11-06-2019

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Maintenance of Electrical Crematorium Building in Hebbal in Ward No.7 Byatarayanapura.

Agency : Sri.B.M.Muniraju, #432/A, Unnati Nilaya, 1st Main, 1st Cross, Shivashankara Block, Hebbala, Bangalore-24.

Customer's Reference : BBMP/EE/BTP/WO/45/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 07-06-2019

Sample Type /Size : CC Kerb Stone/ 450*200*400mm

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete

Date of test : 07/06/2019

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	Kg	(Sq.mm)	(KN)	(N/mm ²)	(N/mm ²)	(N/mm ²)
1	A	150.01	200.51	3.164	17670	182.1	10.3	10.3	12.9
2	B	150.03	200.49	3.193	17675	185.2	10.5	10.5	13.1
3	C	150.01	200.50	3.115	17670	185.1	10.5	10.5	13.1

Note:

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Abhijit N.D.
At (12/1)

Abhijit
Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.M.P.,
Bangalore
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R. Rudraprasad
R RUDRAPRASAD
Authorized Signatory
Technical Manager



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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

CEMENT CONCRETE FLOORING TILES

Lab ID : CP-2019-07-19-54 **Date:** 15-06-2019
Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP,
Bangalore.
Address : Kodigehalli Sub Division, BBMP, Bangalore.
Project Name : Maintenance of Electrical Crematorium Building in Hebbal in Ward No.7
Byatarayanapura.
Agency : Sri.B.M.Muniraju, #432/A, Unnati Nilaya, 1st Main, 1st Cross,
Shivashankara Block, Hebbala, Bangalore-24.
Customer Reference : BBMP/EE/BTP/WO/45/2018-19
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 12-06-2019
Sample Type/ Size : Pre-Polished Designer Cement Concrete Tiles
Reference to BIS codes : IS 1237:2012
Date of test : 12-06-2019

1.Wet Transverse Strength

SL.No.	Dimension (mm)			Wet Transverse Strength	Average	Requirement as per IS:1237-2012
	L	B	T	(N/mm ²)	(N/mm ²)	
1	250	250	10.14	6.95	6.9	The average wet transverse strength shall not be less than 3N/mm ² .
2	250	250	10.05	6.98		
3	250	250	10.09	6.92		
4	250	250	10.11	6.84		
5	250	250	10.47	6.88		
6	250	250	10.45	6.85		

2. Water Absorption

SL.No.	Dimension (mm)			Water Absorption	Average	Requirement as per IS:1237-2012
	L	B	T	(%)	(%)	
1	250	250	10.17	2.58	2.46	The average percentage of water absorption shall not exceed 10.
2	250	250	10.09	2.95		
3	250	250	10.04	2.55		
4	250	250	10.11	2.24		
5	250	250	10.18	2.29		
6	250	250	10.07	2.15		

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Asst. Ex. Eng.
A.E.E.

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.



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R. Rudraprasad

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Technical Manager

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-07-19-54 **Date:** 24/06/2019

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Maintenance of Electrical Crematorium Building in Hebbal in Ward No.7 Byatarayanapura.

Agency : Sri.B.M.Muniraju, #432/A, Unnati Nilaya, 1st Main, 1st Cross, Shivashankara Block, Hebbala, Bangalore-24.

Customer's Reference : BBMP/EE/BTP/WO/45/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 19-06-2019

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 24/06/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm ²)	Average Compressive Strength (N/mm ²)
1	PCC	M15	17/06/2019	24/06/2019	151.28 X 149.23 X 151.66	22575	8.597	273.0	12.1	12.6
2	PCC	M15	17/06/2019	24/06/2019	149.38 X 150.83 X 149.54	22532	8.921	288.0	12.8	
3	PCC	M15	17/06/2019	24/06/2019	149.22 X 151.97 X 151.70	22677	8.483	290.4	12.8	

Note:

The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 90 days from the date of issue of test certificate

FOR CIVIL Pro.

R RUDRAPRASAD
Authorized Signatory
Technical Manager



Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, BBMP,
Bangalore

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL |
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AN ISO 9001 : 2008 COMPANY & NABL ACCREDITED LABORATORY AS PER ISO/IEC 17025:2005

4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-07-19-54 Date: 15/07/2019
Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address : Kodigehalli Sub Division, BBMP, Bangalore.
Project Name : Maintenance of Electrical Crematorium Building in Hebbal in Ward No.7 Byatarayanapura.
Agency : Sri.B.M.Muniraju, #432/A, Unnati Nilaya, 1st Main, 1st Cross, Shivashankara Block, Hebbala, Bangalore-24.
Customer's Reference : BBMP/EE/BTP/WO/45/2018-19
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 19-06-2019
Customer ID : PCC
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M15 / 28 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test : 15/07/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	PCC	M15	17/06/2019	15/07/2019	150.15 X	22682	8.481	399.4	17.6	17.6
					151.06 X					
					149.60					
2	PCC	M15	17/06/2019	15/07/2019	149.47 X	22301	8.030	400.9	18.0	
					149.20 X					
					149.64					
3	PCC	M15	17/06/2019	15/07/2019	149.74 X	22374	8.140	382.0	17.1	
					149.41 X					
					151.41					

Note:

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Noted by: N.D.
AE (24)

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.



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